AMENDMENT TO THE CLAIMS

Please amend claims 1, 2, 3, 4, and 18 as shown below.

1. (Currently Amended) A user interface for a medical image comprising:

a memory for storing a plurality of data sets, each data set corresponding to an image of a location within a medical body of interest;

a plurality of data points within each image, each data point corresponding to a measured parameter collected from the medical body of interest;

a visual display having the image thereon, the image being composed of a visual representation of the respective data points for that image;

a color scale variation on the visual display of the image ~~providing~~ configured to a first color scale variation of those data points in the image that have been analyzed and determined to have a first common characteristic and configured to provide a second color scale variation of those data points in the image that have been analyzed and determined to have a second common characteristic; and

an image analysis indicator on ~~the same visual display as the image~~ each of the plurality of data sets that contain at least one data point determined to have the common characteristic, the image analysis indicator showing ~~a~~ the color scale variation corresponding to the different characteristics of the data.

2. (Currently Amended) The user interface of claim 1 wherein ~~each data point is composed of information from a plurality of data sets of different types~~ the image analysis indicator is configured to selectively show the first color scale variation or the second color scale variation based on user selection of the first common characteristic or the second common characteristic, respectively, in each of the data sets.

3. (Currently Amended) A user interface for the visual display of an image from an object under study comprising:

a visual display terminal having thereon the image from the object under study;

a color overlay on the image as presented on the visual display terminal indicating locations on the image that correspond to tissues of interest; and

an indicator on the visual display terminal at a location spaced apart from the image indicating that the image has the color overlay thereon.

4. (Currently Amended) The user interface according to claim 3 wherein the ~~first markings indicate~~ cover overlay indicates similar regions of material within the object itself that have been identified by a computer analysis of the data collected about the object.

5. (Original) The user interface according to claim 4 where in the object is a medical body and similar regions correspond to tissues that have similar characteristics.

6. (Original) The user interface according to claim 5 wherein the tissue is a type of cancer.

7. (Previously Presented) The user interface according to claim 3 wherein the indicator is at a selected location on the visual display terminal to attract the attention of a user.

8. (Previously Presented) The user interface according to claim 3 wherein the color overlay and the indicator are the same color as each other on the visual display terminal.

9. (Previously Presented) The user interface according to claim 3 further including:

a plurality of images of the object under study displayed simultaneously on the visual display terminal; and

indicators present on the visual display terminal associated with each of the plurality of images that have a tissue of interest thereon, indicating whether each respective image has a tissue of interest thereon.

10. (Previously Presented) The user interface according to claim 9 further including:

a color overlay on those images within the plurality of images that contain regions of interest on the image.

11. (Previously Presented) A user interface for the visual display of an image from an object under study comprising:

a terminal having thereon plurality of images of the object under study;

tissue of interest identified on at least one of the images under study;

a tissue of interest indicator selectively displayable on the terminal to identify a location of the tissue of interest in the images containing the tissue of interest; and

a marking associated with each of the images indicating those images which contain a region of interest that is similar to the tissue of interest, the marking being spaced from the tissue of interest within each respective image wherein the markings has a first form when the tissue of interest indicator is selectively turned on and a second form when the tissue of interest indicator is selectively turned off.

12. (Original) The user interface according to claim 11 wherein the marking associated with each image is spaced from the image.

13. (Original) The user interface according to claim 11 wherein the marking associated with each image is at an identical location relative to the image it is associated with for each of the respective images.

14. (Original) The user interface according to claim 11 wherein each of the plurality of images is within a window and the marking is at the upper left hand corner of a window that includes the image.

15. (Original) The user interface according to claim 11 further including:

a tissue of interest marking on the image indicating the location within the image itself that contains the tissue of interest.

16. (Previously Presented) The user interface according to claim 15 wherein the tissue of interest has a selected color within each image and the marking has the same color as the tissue of interest.

17. (Canceled)

18. (Currently Amended) A method of indicating images within a set of images that contain a region of interest comprising:

locating in a first image a first user-selected type of tissue within a region of interest;

locating in the first image a second user-selected type of tissue within the region of interest;

analyzing the images of the selected tissue type to thereby determine the characteristics of the ~~selected~~ first and second tissue ~~type~~ types, respectively;

performing a computer analysis on the image to locate within the image any tissue having characteristics similar to the characteristics of the ~~selected~~ first tissue within the region of interest;

performing a computer analysis on the image to locate within the image any tissue having characteristics similar to the characteristics of the second tissue within the region of interest;

performing a computer analysis of a plurality of images to locate within each of the images any tissue having characteristics similar to the characteristics of the ~~selected~~ first tissue type;

performing a computer analysis of a plurality of images to locate within each of the images any tissue having characteristics similar to the characteristics of the second tissue type;

selecting the first or second tissue type; and

placing an analysis status indicator associated with each image that contains the selected tissue ~~of interest~~ type.

19. (Previously Presented) The method according to claim 18 wherein each image is within a window on a visual display terminal and the analysis status indicator associated with that image is in the upper left hand corner of that window.